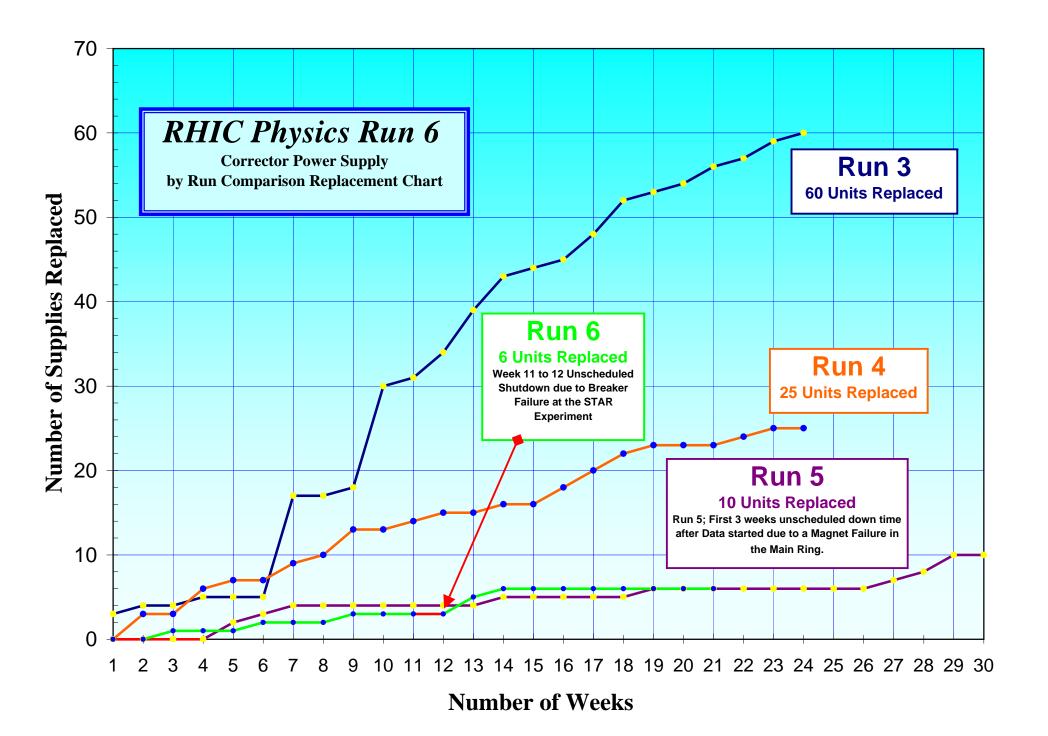
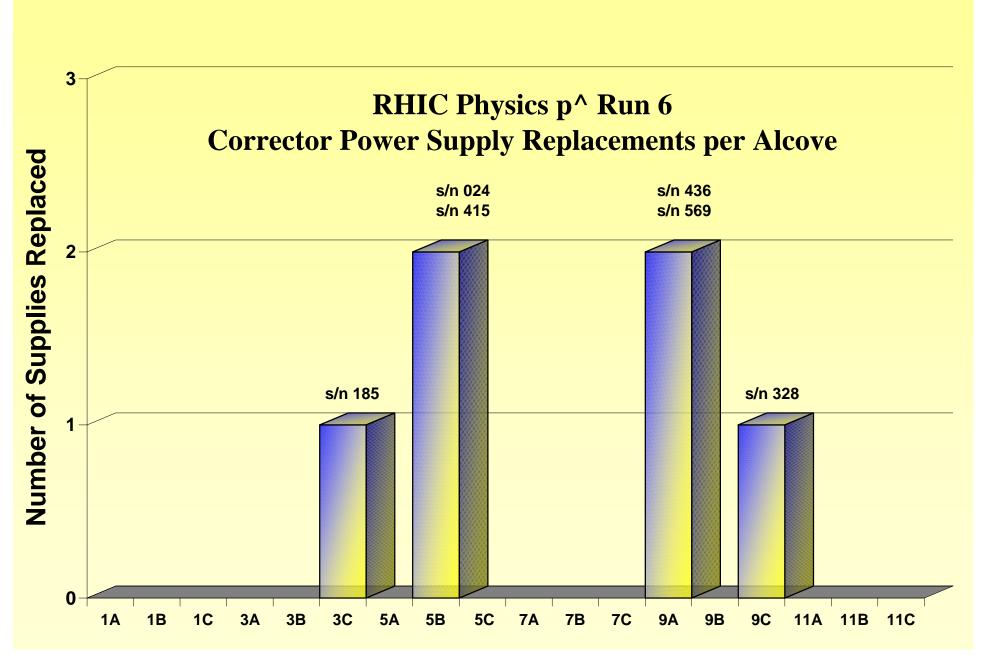
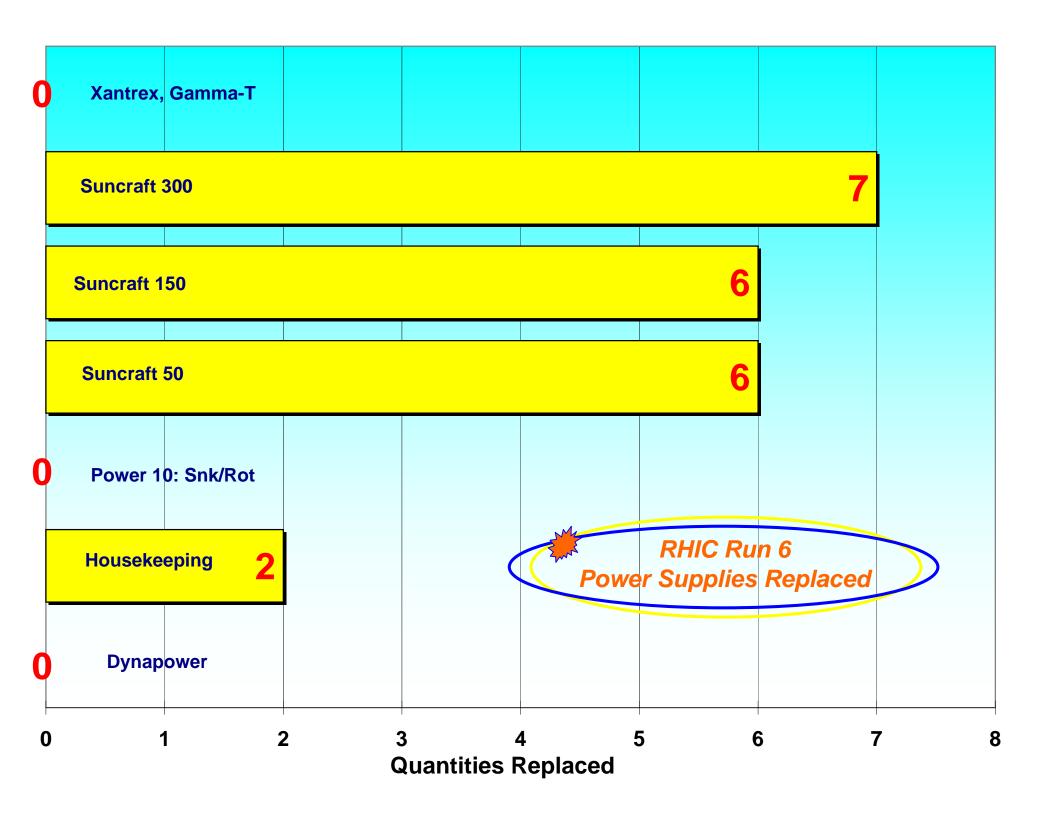
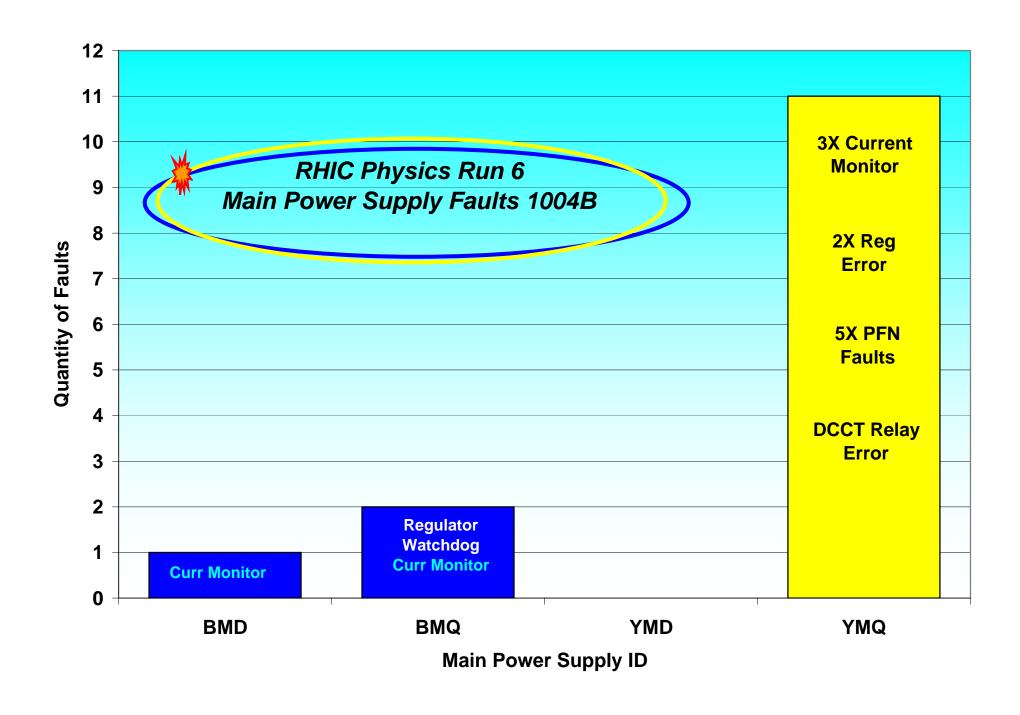
Main QLI Faults	RUN#	Run 2	Run 3	Run 4	Run 5	Run 6
Beam Induced	Runs 1 & 2	46	69	54	37	18
Quench Detector Faults	No Data	13	29	13	20	2
Quench Detector / Controls CFE	Available		New Field added	d starting with Run	6	10
IR Supply Faults		100	44	24	51	29
QPA Faults		40	6	9	6	5
Main PS (Total) Faults		68	38	46	6	14
Controls 6B Yellow Permit Fail		25	9	24	0	0
Controls Related		20	15	20	13	5
Operations Error		34	15	17	12	4
Cryo Related		6	9	2	4	2
Power Failure		10	8	3	7	9
Other		27	27	24	29	9
Power Supply Induced Quench		6	1	4	0	0
Totals:	1197	395	270	240	185	107
Snake / Spin Quench Faults	RUN#	Run 2	Run 3	Run 4	Run 5	Run 6
Beam Induced	Runs 1 & 2	20	17	5	2	3
Controls Related	No Data		New Field added	d starting with Run	6	9
Quench Detector Faults	Available	0	0	1	0	2
Quench Detector / Controls CFE	-	-	New Field added	starting with Run		1
Power Supply Faults		10	2	4	0	1
QPA Faults	1	0	0	0	0	0
Operations Error		2	0	2	1	2
Cryo Related		2	0	1	3	3
Power Failure		0	0	2	2	9
Other		2	6	0	5	0
Totals:	119	36	25	15	13	30
AGS Cold Snake Quench Faults	RUN#				Run 5	Run 6
Beam Induced					0	0
Controls Related		First Cryogenic	Magnet Installed in	nto the	0	0
Quench Detector Faults		AGS Accelerator Ring! Commissioning Run March 30, 2005 (Run 5)			0	0
Quench Detector / Controls CFE					0	2
Power Supply Faults					13	9
QPA Faults					0	1
Operations Error					9	3
Cryo Related					0	0
Power Failure					0	1
Other					0	0
Quench Heaters					0	1
Totals:	39	0	0	0	22	17





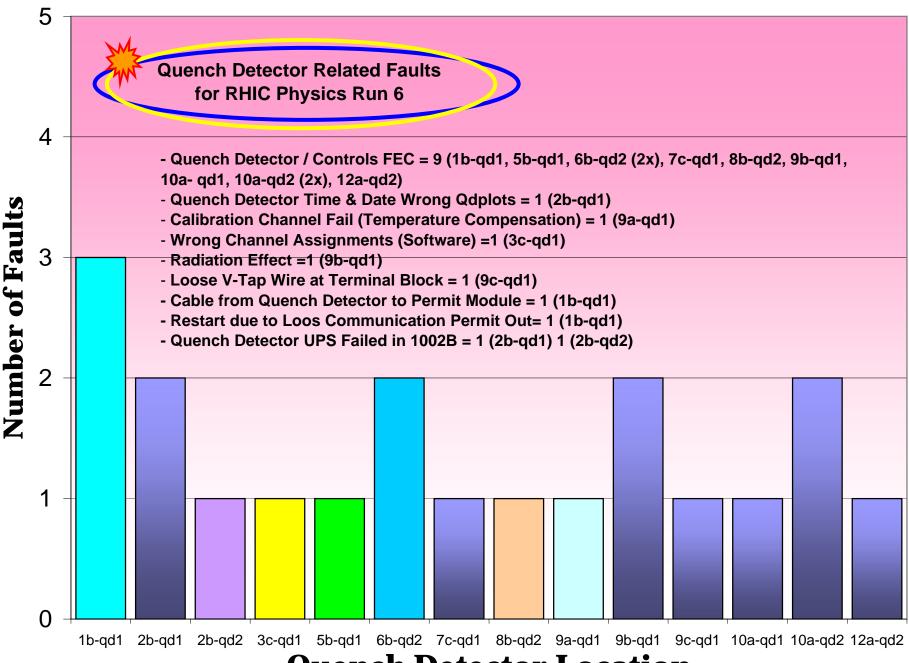


11				
6-Feb-06				
15-Feb-06				
18-Feb-06				
13-Mar-06				
16-Mar-06				
19-Mar-06				
4-Apr-06				
5-Apr-06				
3-May-06				
10-May-06				
11-May-06				
12-May-06				
22-May-06				
2-Jun-06				
8-Jun-06				
8-Jun-06				
10-Jun-06				
10-Jun-06				



Date	Time	I-dent	QLI Ref:	Analysis of Main Power Supplies 1004B	Fault ID
				2006-Mar-31 22:37:00 A Yellow QLI has occurred while the Yellow magnets were sitting at injection field. 2006-Mar-31 22:45:00 C. Schultheiss is investigating the cause of the Yellow QLI from home. We received an alarm for y-qmain Reg DCCT. 2006-Mar-31 23:00:00 Carl reports that the y-qmain DCCT error is clear. He will watch from home will be attempt to recover the Yellow quench link. Don has asked that we wait to do this until after the Blue line has been recovered. (DCCT Relay	
31-Mar-06	22:37:15	YMQ	PR-012	Error)	DCCT Reg
4-May-06	18:50	BMQ	PR-036	20:19 Preliminary analysis here shows the blue main quad moving before t=0.1 think this caused this blue qli. A more detailed analysis will follow to confirmDon Bruno [rhic] [ps] 23:35 Blue main quad had a Reg. watch dog fault. Some thing in the main quad current regulator faulted and caused the RTDL main quad current to go to zeroGanetis [ps ouench]	Reg Watchdog
				11.02 The arrange the Vellag Oued DEN signife #1 Township time the day trip	Yellow Main
26-May-06	9:47:32	YMQ	PR-045	11:03, The error was the Yellow Quad PFN circuit #1. Investigation after the trip showed the PFN circuit charged up normally and all the ancillary circuits were working. The connections to the PLC input module were tightenedCS	Quad PFN Circuit #1
16-Jun-06	1:53:08	YMQ	PR-061	The 24 Volt to the PLC Remote I/O in the Hot Box was momentarily lost causing the Regulator to go Low, indicating a Quench. The Regulator then Shut-off the drive to the Power Module SCR's and the Current coasted through the last pair ON, slowly decaying until the Regulator pulled the Link on a Regulator Error.	Reg Error
17-Jun-06	2:36:10	y-qmain	PR-063	Jun-19-2006 10:33 This is very similar to the June 16 QLI Event at 01:53:08 when the Yellow Main Quad power supply's current begins to drift down and the voltage goes into a Sine Wave of 193V Peak Peak. As Card Schultheis had explained to me the last time this occurred, "by looking at the Cold Sor Temperature Signals, there was a momentarily loss of 24 volts to the PLC Remote I/O in the Hot Boxt-This momentarily lost caused the Regulator to go Low, indicating a Quench. The Regulator the Boxt-this momentarily lost caused the Regulator to go Low, indicating a Venech. The Regulator the solution with the Contract of the Public Plant of the Sort Contract Co	o T I I Reg Error
22-Jun-06	3:25:21	y-qmain	PR-067	2006-Jun-22 03:25:00 Development is off. A Yellow quench link interlock occurred during a ramp to to energy, though the beam in Yellow had been lost much earlier (when the RF loops closed). 2006-Jun-22 03:45:00 C. Schultheiss was contacted, since the QLJ appeared to be triggered by the y-quain power supply. Carl perpost that there was a current mointor fault. Quench necovery has begun 2006-Jun-22 03:03:00 Machine Development. RHIC injection has resumed.	Current Monitor Fault
22-Jun-06	4:14:34	y-qmain	PR-068	2006-Jun-22 04:14:00 Development is off. Another Yellow QLJ occurred under the same conditions. 04:22 80th Carl Schultheiss and Fred Orsatin are coming in to repair the y-quania problemjpj, vhs, css yun 06:27 A problem with y-quania exists that Carl believes we can live with for the remainder of the run. I and Fred have disabled the current monitoring in software in order to allow us to continue with the development work, and will discuss the issue with other Power Supply people during the daytimejpj, vhs, csa	Current Monitor Fault
24-Jun-06	Ops Log	y-qmain	PR-079 (3X)	2006-Jun-24 16:30:00 C. Schultheiss and F. Orsatti are coming in to investigate a problem with the Yellow main quads. The main quads have pulled the yellow quench link 3 times this shift (PFN Faults) well after the power dips had subsided. 2006-Jun-24 20:28:00 Carl and Fred are preparing to replace a bad PFN relay on the power supply relat board for the y-ramin power supply. 2006-Jun-24 21:56:00 Carl reports that the repair is complete. Running Yellow quench recovery. 2006-Jun-24 21:40:00 Quench recovery has failed Carl and Fred are reviewing the y-qmain problem again. 2006-Jun-24 23:13:00 Running Yellow quench recovery again. 2006-Jun-24 23:17:00 Quench recovery is complete. Carl reports that a loose wire the supplies -15V to the sensing circuit for PFNI was sightened. The relay replaced earlier was probably not the cause of the problem. (Major Power Dips for the Weckend)	PFN (3X)
				2006-Jun-25 034600 Another Yellow quench link interlock has occurred, most likely caused by a PFN fault on the y-quain power supply. 2006-Jun-25 0441000 Carl is coming in again to investigate. 2006-Jun-25 0443000 Fred is coming in again at 2006-Jun-25 0443000 Fred is coming in again 2006-Jun-25 0453000 Starting quench recoverys. 2006-Jun-25 0653000 Quench recovery has finled. Carl and Fred are continuing their work. 2006-Jun-25 0703000 C. Schultheiss and F. Orsatti are working on repairing the cause of multiple QLI in the Yellow ring.	s
25-Jun-06	3:46:32	y-qmain	PR-081	numerous yellow QLI's	PFN
25-Jun-06	7:05:41	b-qmain	PR-082	While Carl and Fred where working on the Yellow Main Quad PFN Fault, the Blue Main Quad tripped on a Regulator Error. Talking to Carl, he has no idea since they where not working near this system.	Reg Error
25-Jun-06	13:27:16	y-qmain	PR-083	The PLC was accidentially reloaded with the old software. It was several hours after recovery when thi OLI Event occurred. Carl had to go into the software and make the changes to the newer version. C. Schultheiss	Current Monitor
26-Jun-06	6:57:20	b-dmain	PR-085	15:52 This Blue QLI Event was caused by the Blue Main Dipole power supply. A Current Monitor Fau developed during the switchover between Flattop and RampG. Heppner [rhie] [quench]	t Current Monitor

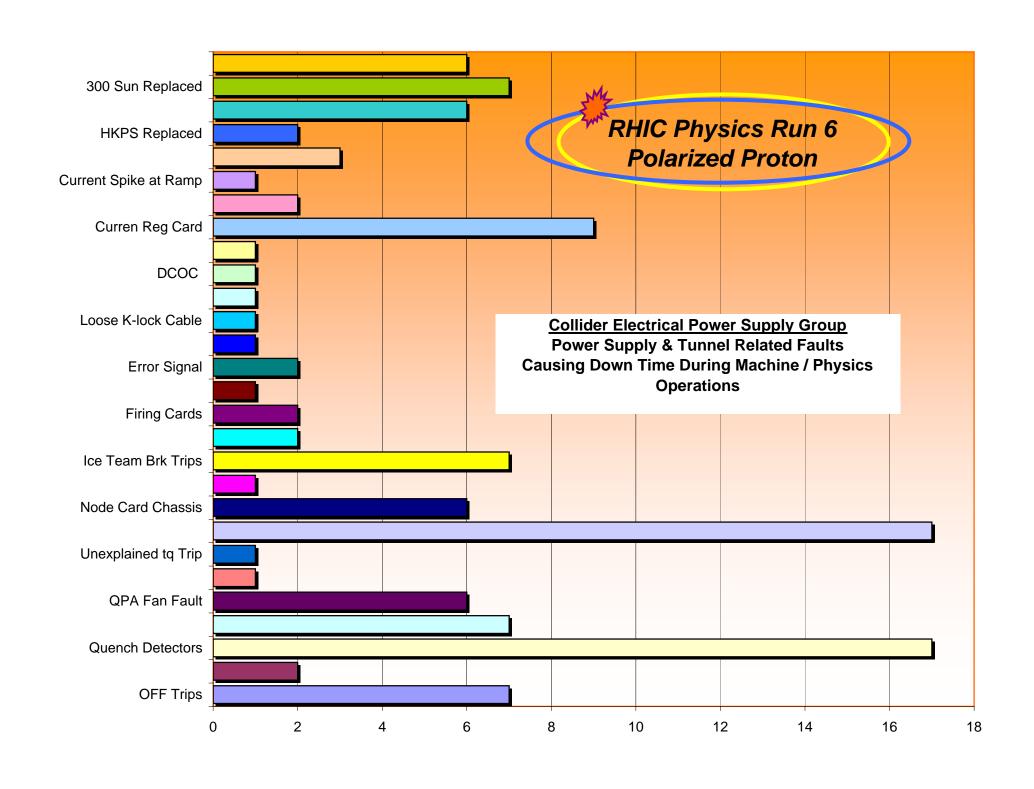
Data Researched and Compiled by Gregory 9. Reppare
6330/2006 8:56 AM



Quench Detector Location

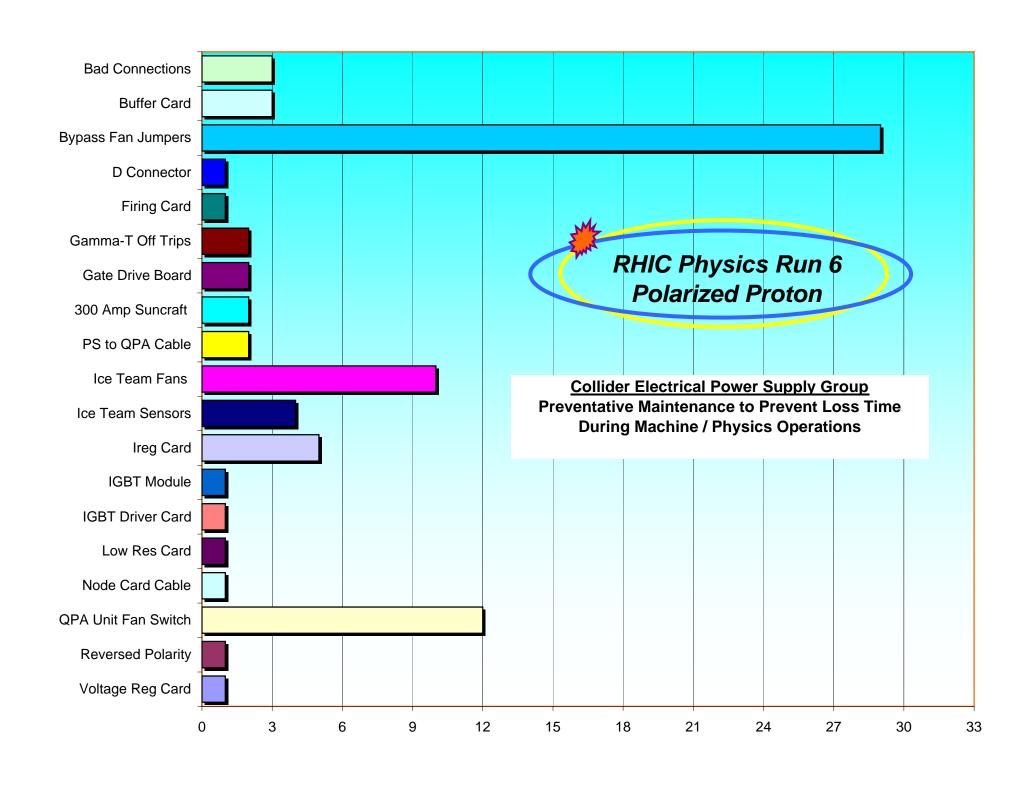
Posts.	Time	Tares	Y	OLI Ref:	Analysis of Church Datastors	Fault ID
Date		1-GCIII	Loc	QLI ALL	2006-Feb-20 12:01:00 cfe-10a-qd2 reports a no heartbeat fault on the alarm display. 2006-Feb-20 12:06:00	1
20-Feb-06	12:19:43	cfe-10a-qd2	10A	MS-010	2000-Feb-20 1203/30 of EVE 104-922. Epitors as no nearness naint to use aumunapaps. 2000-Feb-20 120000 While trying to reset the FEX 104-92 fit request that Quench Detection personnel be contacted first. 2006-Feb-20 12:22200 resetting cfs-100-qd2 after consulting with 6. Ganesis. 2006-Feb-20 12:23:00 The Yellow Quench link was pulled as a result of resetting the Quench Detection FEX.	Quench Detector / Controls FEC
21-Feb-06	23:41:00	3c-qd1	3C	George Noticed	2006 Feb-21 23-41:00 G. Ganetis calls to report a problem with the quench protection for the snakes in the 3C salove. He will require - I hour to diagnose and repair the problem from home. This work will include change the management of the results of the region of the results of the region of the results of the region of the results	Software Channel Assignments
22-Mar-06	18:10:57	cfe-7c-qd1	7C	PSQ-001	2006 May 2, 17, 56,000 Communications have been also with cfs. (To del.). 2006 May 2, 21, 18,05,00 ARXS is off. We assesswith ramped the BRE magnets in term before exemple the BRE. Chip rantees are the To qct. to the prints usual only be seen wheth the factors have religion of an open due to the queen decision. The prints usual only be seen wheth the factors were religion of an open due to the queen decision. The seen are seen as the contract the contract of the contract of the seen and the Current Gloss See 11 ample therefore the magnets of the open call. Bloom (4) Rozanos had tripped due to the cfs-To-qctl rebox as per MCR. G. Heppener [tric] [queen h].	Quench Detector / Controls FEC
22-Mar-06	14:54:53	9c-gd1	9C	PSQ-002	These year a force gas couled lead voltage top wise to Not 143.7.2.3 four caused this scale magnet to queue the 145.5 ft.m. Offsham were time investigate, show you What you and Gregg Hoppere, and the found the found the 154.5 ft.m. Offsham were time investigate, abong with well we were down here. Jon Brough Meller (Deceller Bit 172.5, positive lead Voltage Tay West BROSNITS, Gl. located as the Queue Deceller Bit 172.5, positive lead Voltage Tay West BROSNITS, Gl. located as the Queue Deceller Bit 172.5, positive lead Voltage Tay West BROSNITS, Gl. located as the Queue Deceller Bit 172.5, positive lead Voltage Tay West BROSNITS, Gl. located as the Queue Deceller Bit 172.5 and the Common of the	Gas Cooled Lead BI9SNK7B3_GI Faulty Wire Tap
23-Mar-06	15:18:20	cfe-Sb-qd1	SB	PR-005	16.53 We had to reloca a funer end, efs. Stugil, due to a supposee failure indication that occurred during the alphysics some. This cused the quench links to steep, In the measurem, during the access into BBEET, view under a relative part Sen. 27.5 and 1.4. The activate some color failure buildings for far age-cooled lead to the sankers, and has cused devarate inseparators around the ring. We avait clearance from Cryb before proceedings with recovery. 4.4. Blue Recovery, Completed and 5.6.11 and 16.00 Recovery Completed at doctors and the relative Recovery Completed at Most Part and Control Recovery Completed at Most Part and C	Quench Detector / Controls FEC
24-Mar-06	19:02-52	cre-8b-qd2	SB	PR-006	SIGMAD 2.1 http://doi.org/10.1001/10.1	Quench Detector / Controls FEC
25-Mar-06	23:45:00	cfe-12a-qd2	12A	PR-008	22-45 Quench Link Interfack in Yellow ring First input dropped uss 12a-p.i. A (224-500 1681663) First supremic micrit drop uss 49-bine. A (223-4500 1681664) -Sequencer 22-45 Beam Abort, 12a-p.i. A dropped Yellow Quench-Sequencer 22-15 This quench is happened because we had to rebook er-51-p.42 -NAK	Quench Detector / Controls FEC
		,			2006-Mar-31 16-00:00 QLI in blue and yellow. Cypo is checking their equipment. MCR is ramping down the imagens and preparing for access to replace cite-7x-pa2: CCAS will assist 2 Pepe in the replacement. 2006-Mar-31 16-550 Sepacement report for 16 mill imagent grants to enqualment per and depose in both beam set yellow ring. G sepacement of the contraction of the contract	
31-Mar-06	16:31:36	9b-qd1	9B	PR-009	pursion recovery. For the bil-tq6-ps trip, Qdplots time amd date are incorrect for this event.	Radiation Effect
7-Apr-06	15:15:57	2b-qd1 Aux	2B	PS Fail	[4002.0805006.220537.Q.A.dat Blue. Aux 2 Quenched [SignalB1TOG. VT Int 1]0604053006.220537 inklockdoe: CVCUI) was indicated when the actual date was 040470006 and the Time of the Fever was 15:15-57. George Ganetis was notified and looked into the issue. The Plots for the wrong Date and Time are the ones to use.	Wrong Time and Date Transfer
9-Apr-06	1:32:24	cfe-6b-qd2	6B	PR-020	Sequence of Former. 2006. Apr 60 22-25.55. Cyp. control represe had they have been communication with lead whose in the 6 clotics sext. They request that they confirm sever be received. 2006. Apr 60 22-20.00 perports that they are containing to have communication difficulties. The problem is related to the repose. The relation of the confirmer disculation from the 60-pert. The firms and the unique an about in order to resource communication. We have a message for 1. Helf and then off IG Gaussin for assistance 2006. Apr 60 23 10 48 G. Gaussin has called the very counter owns and determined to that enferrizes are years in state and with feature contained operation. 2006. Apr 60 10 20 24 Heaving and the contract of the contract	Quench Detector / Controls FEC
12-Apr-06	21:41:47	cfe-9b-qd1	9B	PR-026	2006-Apr.12 23:23:88 Summary: Accelerator Beam Experiments ran for 7.5 hours this shift. Afterwards cfe-96- gd1 was reset which brought down both the Yellow & Blue quench links. Once the quench links were recovered, the sextupoles associated with the 90 alrow that to be retrained. As of the end of shift RHIC has been put through a hysteries vecke and is being preped for a 113.111_pt bunch pattern fill.	Quench Detector / Controls FEC
12-Apr-06	23:28:44	cfe-6b-qd2	6B	PR-027	2006-Apr-12 23:30:00 6b-qd2 is now dead. MCR consulted G Ganetis per fit reset instructions; be advises us to go ahead with the reset. Ramping to zero. 2006-Apr-12 23:54:00 Quench links are back up. Hysteresis ramp.	Quench Detector / Controls FEC
13-Apr-06	9:38:40	cfe-1b-qd1	1B	PR-028 / 029	Communications Failure of the cfs-1b-qd1 Quench detector required a Re-boot. It was descided to Re-boot all cfc Quench Detector front ends this time since there has been multiple communications faults with the cfs-qd's including 4 within the last 24 hours. This caused the Blue Ring to quench. G. Heppner	Quench Detector / Controls FEC
16-Apr-06	13:56:49	cfe-10a-qd2	10A	CRYO	2006-Apr-16 13-56-49 Cryo reports that they have lost communication with the 10 c/clock sector. After inspection, we find that cfc-10a-q21 indicates a no heartheat condition. After leaving messages for L. Hoff and W. Louie as well as conferring with G. Ganetis, we reboot the FEC, restoring cryo communication with the sector.	Quench Detector / Controls FEC
25-Apr-06	10:23:06	cfe-10a-qd1	10A	PR-032	Alarm Page indicated at 07:44.28. No HeartBeat, response failuer - acrifeci 303, 9bn hal, gov. Notified the proper personed. GH 11:23 This Bee King QLI was due to a reset of the cft- 10-apt (I term Number 3 of the Automated Analysis). Observations: Both rings hab the en ranged to zero current and all 4 DX Heaters in 1010A had been fitted while the DX Magnet was at low currentG. Heppener [this] (quench)	Quench Detector / Controls FEC
2-May-06	4:15:25	cfe-9a-qd1	9A	PSQ-016	The 9a-qd1 quench detector tripped because of a hardware problem with the temp. compensation channel. I have turned the temp, compensation off in this quench detector for nowGanetis [quench] Access required to make repair. Found Channel 15 of Card 1 (Dual Gain Mux Card) that is resonable for the Temperature Compensation	Temp Compensation Channel Temp
3-May-06	9:15:00	cfe-9a-qd1	9A	Ref to PSQ- 016	Found Chairbration Channel) was reading 0.03 when norm operation should have been 0.3v. Replaced Card and restored system back to operation. D. Oldham, W. Louie, G. Heppner	Compensation Channel
1-Jun-06	4:27:43	cfe-1b-qd1	1B	PR-048	06:38 The blue link trip cause looks like an intermittent cable connection between the 1b-qd1 quench detector and the permit module. This should be checked soon. This quench detector is located in the 1B alcoveGanetis [blue] [quench]	Other (Cable)
1-Jun-06	9:56:10	cfe-1b-qd1	1B	PR-050	Ref to PR 648, Timed access was grained when PR 649 (h-optim Table Box Falset). Cleared and imperced K- bock Connections or Cables, Opened Derector and the Promit Models Chasins. Tap test and Weigler Weir Test all stress and unaphate with Court of our generated. This Assessard Permet Cables, Social Indianced Seed and seed of the Cables	QD Restart
					10:28 Tom Nolan, Jeff Wilke and Gregg Heppner are swapping out the UPS for the quench detector in 1002B. They will contact Whig Louie when they are done. Wing will get teh quench detectors going and then contact MCR. Don Brano [thic] [ps]	
13-Jun-06	8:44:34	cfe-2b-qd1 cfe-2b-qd2	2B	PR-059	11:35 The Blue and Yellow Link tripped due to a UPS Fuil causing a loss in power to the Quench Detection Rack in Building 2B. This loss of power also caused all 4 Dx Magnet Heaters to FireG. Heppner [thic] [quench]	UPS Fail

Data Browndad and Conglid by Gypping F. Reppin

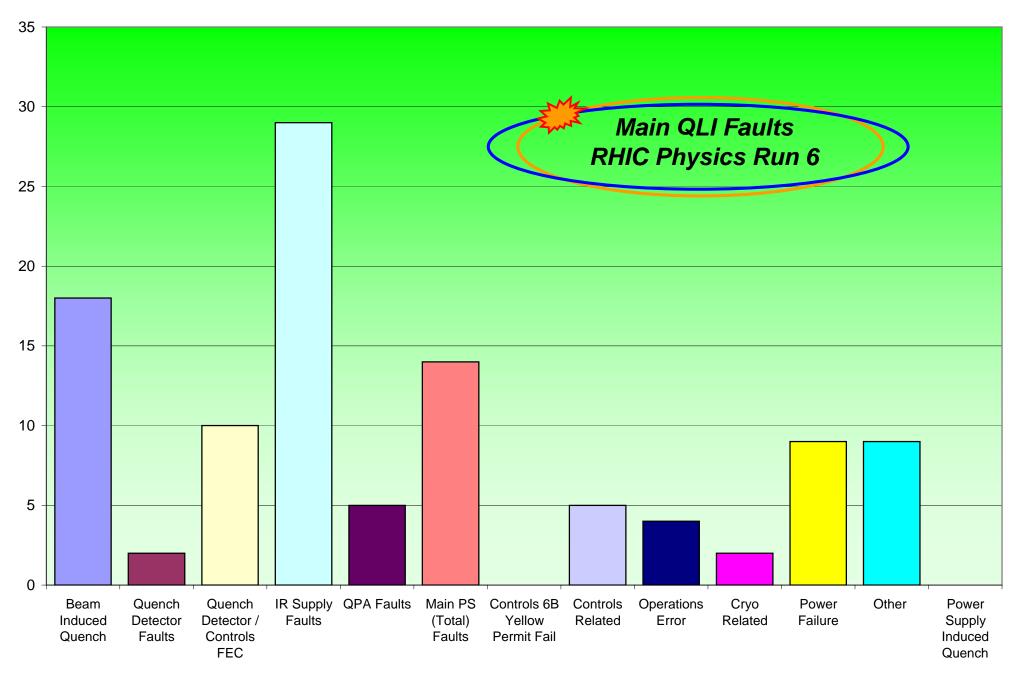


Date	Otr	East	OLUBE	Identification	What Were They?
					Power Supply b12-q6 had tripped to the off state. No action taken, TAPE was able to revision for now. During the day, Techs replaced Control Card, Digital
6-Feb-06	-	970	MS-901	b12-s6	DESCRIPTION OF THE PARTY.
12-140-06		QPA-PS Cable Palet	NS-003	te-qo	The bestimen council this oil. The connect conflock to the RTDL was
					I rippine canning a range. The Canness resultinck to the RTDE, was beeneding. When we ran the p.s. up again we found this current readfluck was haif of what in should be. Moving the Domasters on the tolde hos frond it. George Hippiner removed the Domasters and cleaned the pins with contact cleaner and broth. Don Brane Ishic Line.
					half of what it should be. Moving the D connector on the toldo box fixed it. Green Herman removed the D connector and cleaned the nins with contact
J3-5/de-96		Toldo Box D Connector	MS-994	b-stitt	cleans and brock - Don Brons Little Litts
15-Eub-06		Sancraft 300 Replaced	MS-907	x6-a89	No Report as of this centry 2-23-08
18-Feb-06	1	Corrector PS Replaced	N/I	yu5-ev15	No Report as of this cetry 2-23-98. Tripped on Off / Error. Tech found a solder connection that was missing solde from the factory!
1214000		Contra P. Falguardo		justis	arina da daday
					Press the Lags PS states - easis: Boy Error states AC Power, Standay, Barrot, KC Powerson, Quark, RC Commiss or solely at the time to the Commission of the Commission of th
					Remote, DC Overcument, Quench. DC Current was steady at the time so the
					Experts (Don Bruno and Joe Droed) and they checked the electrical path
					connections. Also they resented the J12 D Connector at the back of the
20-Feb-06	1	DCOC	MS-009 MS-000	yi5-qf1	Card because this is where the DC Overcurrent Circuit is located
20-Feb-06 21-Feb-06		cfe-10u-qd2	MS-010 George N1.	Quench Det	Communications Loss with cfe-10a-qd. Wrong Software Channel Assistances
21-Feb-06	1	cfe-3c-qd1 Ice Team Brk Trip Current Reg Card	N/L	Breaker	7Q51 Brk #4, Sector 6 Rotators
23-Feb-06		Current Reg Card	MSQ-003	h5-m2-2.3	Scratchy Ited Signal causing current to follow tripped supply on error. Description to CEA or the Process of Software the OFA or the Process.
26-Peb-06 26-Peb-06	1	QPA-PS Cable Fault Crowbar	MS-015 MS-014	bi5-gf3 bi9-db0	Power supply caused a QLI our there where no mans on the QPA or the Power Supply Voltage Spikes seen on the PS
26-Feb-06			MS-014	1 107-100	Trough Space has on the FS
28-Pub-06	1	Ice Team Sensor Pail Sun 150 Replacement Cornector PS Replaced Buffer Card	N/L	Y10-17TB	Sensor Fulled 6200000031FCBD121replaced with ID # 8A00000047298E21 Power Supply Voltage went to zero Dituned on an Orea Voltage. Topped the 2-78th quarter detector, replaced as per George Ganett
13-Mar-06	1	Sun 150 Replacement	NI.	bil-sq5	Power Supply Voltage went to zero
18-Mar-06	1	Buffer Card	PR-002	308-059 bol0-db0	Tripped the 4-20Ma quench detector, replaced as per George Ganeti
18 May 04	١.	Fiber Optics Card	PR-003	bol0-qd7	Supply suddenly set leef to the top and would rail the supply then after when
19-Mar-00	i	Sun 150 Replacement		bil2-sa4	System to recover treat me try No. Accessed Decision with Garly-squ'il Poully War Connection BEPSONTHS. G.I. Communication Law with Garly-squ'il Communication Law with Garly-squ'il Communications Law with Garly-squ'il Communications Law with Garly-squ'il Communications Law with Garly-squ'il Communications Law with Garly-squ'il Endomin Belliots definition Law Garly-squ'il Endomi
19-Mar-06 22-Mar-06 23-Mar-06	1	cfe-7c-ed1	NJ. PSQ-001 PSQ-002	Quench Det	Communications Loss with cfe-7c-qd1
23-Mar-06	i	cie-sc-qui cie-St-suli	PE-905	Ouench Det	Communication Loss with cfe-2h-oil
24-Mar-06		cle-8b-qd2	PR-006	Quench Det	Communications Loss with cfe-8h-gdl
21-Mar-06 24-Mar-06 24-Mar-06 31-Mar-06 31-Mar-06	i	Japa LID Betalescenses c. 60-00-cell c. 60-0	PR-005 PR-006 PR-008 PR-009 PR-000	NIZ-194 Quench Det Quench Det Quench Det Quench Det Quench Det Quench Det Quench Det yok-day3 bo3-qaf7	Radiation Effects disrupt cfs-9b-adl
31-Mar-06 31-Mar-06	1	Firing Card	PR-010 PR-011	yo8-dq3	Power Supply Oscillation Par Park, mixthes ISSAT Safety, Part Safety Values, Description, 1988 Oscillation, 1989 Oscillation, 198
31-Mar-06 31-Mar-06	i	DOCT	PE-912	XMO	DCCT Relay Error (Carl Schubbeiss
31-Mar-06	1	Firing Card	PR-012 PR-013 PR-016	y8-q6 y8-q6 y12-q89 y09-tv7	Power Supply Oscillations
31-Mar-06 2-Apr-06 4-Apr-06 5-Apr-06	1	Suncraft 300 Replaced	Beam Abort	y12-q89	Voltage Unstable, caused beam to become unstable
5-Apr-06	1	Corrector PS Replaced	Beam Abort MCR	yo9-tv7	Over Temp / Over Voltage
3-Apr-06	1	Ice Team Bek Trip	NL NL	Breaker	PN1052 Bisk #1. Sector 1 Tree Heater
8-Apr-06 9-Apr-06	1	clo-6b-qd2	N/L PR-020 PR-026	Quench Det Quench Det	Communications Loss with cfe-6b-qd2
12-Apr-06	1	cle-96-gai	PR-027	Quench Det	Communications Loss with cle-90-qui
13-Apr-06	2	cfe-6h-qd2 cfe-1h-qd1	PR-027 PR-028 / 029	Quench Det	Communications Loss with cfe-1b-qd1
16-Apr-06		cfe-10u-qd2	CRYO	Ouench Det	Communications Loss with cfu-th-ugll Communications Loss with cfu-th-ugll Communications Loss with cfu-th-ugll Communications Loss with cfu-th-ugll during Unscheduled shutdown due to Breaker Full at United Section 100 and 100
23-Apr-06	1		CRYO PR-031	Quench Det yol-qd3	yol-qd5-ps Error Fauk
25-Apr-06 25-Apr-06 30-Apr-06		OPA-PS Cold-Euro	PR-032 PR-033 N1.	Opench Det	Communications Loss with cfe-10s-adj
30-Apr-06	1	cite 190-mil. QPA-PS Cable Fault lee Team Bek Trip lee Team Bek Trip 50 Amp Corrector PS 50 Amp Corrector PS Corrector PS Replaced	N/L	Dyench Det bi4-qt3 Breaker Breaker	you quit you turner result Encommunication for write Acts (2016-201) 104-427-9 (PA to PS Cathe Paul PROSEZE, Rice 99, Society S Rotation PROSEZE, Rice 99, Society S Rotation PROSEZE, Rice 90, Society S Rotation Thought on the COS State
30-Apr-06 1-May-06 1-May-06 2-May-06 3-May-06		SO Arres Corrector PS	NL NL	Breaker vol.tv.17	PNSOSC, Risk #9, Sector 5 Rotators
2-May-06	1	50 Amp Corrector PS	N/L	204-017 205-017	Tripped to the Off State
J-May-06		Corrector PS Replaced	MCR	194-tv17	
3-May-06 3-May-06	1	cfe/fu-qd1 50 Amp Corrector PS	PSQ-016 N/L	Quench Det yu5-tv17	9a-qdl Quench Detection Hardware (Temperature Compensation Channe
	1		N/L		9a-qd1 Quench Detection Hurdware (Temperature Compensation Channe Loose AC Connection at the Rure of the Supply Blue main quad Reg. watchdog fault, caused the RTDE main quad current to g
+May-06 +May-06 +May-06	1.	Ree Watchdor Current Spikes Current Reg Card OPA Fine Funk QPA-PS Cable Funk 50 Amp Corrector PS	PR-036 PR-037	BMO b6-q6 b011-qd1 bi8-q1 b03-qd7 bi8-dod2	The Same space from the Same of the Same Ramp Centure Space doing the top of the Same Ramp Ramp Error Took Centure Ray Cord Bad Relat (SA A. Sa. Edit Latinus the John A. Litanus and Same Cord Cord Cord Cord Cord Cord Cord Cord
4-May-06 4-May-06	1	Current Spikes	PR-037 MCR	16-q6	Current Spikes duing the top of the Store Rump
6-May-06		OPA Fan Fault	PR-041/042	hi8-of1	OPA Fast trinsing the Link 2X (humor Installe)
6-May-06 6-May-06 6-May-06	1	QPA-PS Cable Fault	PR-041 / 042 PR-043 N/L	bo3-qd7	bo3-qd7-px QPA to PS Cable Pull
	<u> </u>	30 Aug Contact Fa		LEST-SILVER	Tripped on Over Temp on 5/6/06, MCR could not reset so they steered around
10-May-06	1	Corrector PS Replaced	MCR	N8-dod2	
10-May-06	1	Ice Team Sensor Pail	NI.	Y10-02TB	Sensor Pailed 0C0000003FA81929replaced with IID #: 32000000388C2F21
11-May-06 11-May-06	1	Ice Team Sensor Pail Corrector PS Replaced Ice Team Bek Trip	NIL MCR NIL	Y10-02TB yi3-055 Breaker	Tripped on Error, could not run negative direction
11-3429-00		EX TORS OF THE		- DECARE	Sensor Falled CCOMMINATOR Suppliced with 10 #: 33000000388CP2 Tripped on Brave, could not run negative direction PRISQCE filed #1,5 extent 1 Fine Historic Opplied of Thermonia at YQ2 NOTE: Prover Supply (via 168) was working fine and had no problems but with the proper of the Court of the win in the yeltory ingle they ser and now blast raing is noisy. The now power supply (via 1000) is tripping to the OFF state.
					Wolfram wanted it swapped out because it was in the yellow ring last year and
11-May-06	1	Suncraft 150 Trips OFF	NI.	hi12-sq4	store bearing is notely. The new power supply (on 000) is imposing to the OPP plane.
					NOTE: Power Supply (s/n 084) was working fine and had no problems but
					tions want range of meany. In more portion anappey (wit odd) is supposing to min Cot office. NOTE: Power Supply (wit 064) was working fine and had no problems but Wolfzarn waterist is recupped out because it was in the yellow ring less your and now blase ring is noisy. The new power supply (wit 000) is tripping to the OFF state.
11-May-06	1	Suncraft 150 Trips OFF Suncraft 150 Replaced	NIL NIL	bi12-sq4 bi12-sq4	state. SN 006 was tripping to the OFF State too many times and was replaced. The remote n.s. status is flashine between an OFF state and a "No n.s." state.
12-May-06	1	Suncraft 150 Replaced	NI.	hi12-sq4	S/N 006 was tripping to the OPF State too many times and was replaced. The remote n.v. status is flushing between an OPF state and a "No.n.v." state.
19-May-06	1_	Loose D Connector	NI.	yi10-tq4	AT 73-76 the country detector tripped it but there is no ununable to an slower
12-May-96		Unexplained to Trip.	N.	bo10-te-f	with it and Lifes) howeverby. Levil here to ask houston Laste.
19-May-06 22-May-06 24-May-06 26-May-06	1	Uncookined to Trip. Sun 150 Replacement QPA Fan Fault PPN Clevit #1	NL NL PR-044 PR-045	yi10-sq4 YVDQPSW YMO	CAS discovered the 25 pin D. Connector (Node Card Cable) was house as the power supply. AT 21.25 the queuesh distorter tripped it but there is no snapshot to go along with a said, feed pixer why. Let II have to said Josephan, Jacks. Tripped to the COT State, CAS mapped out as per Dan. TVDQCPSW - states, All Thore Train. Open Connector, Remote Dr. Nation Main Charl PLIN Clean R.
26-May-06	1	PPN Circuit #1	PR-045	YMO	Yellow Main Ouad PFN Circuit #
29-May-06				9A-R2	Tripped supplies Off, Alarm Status: due to "Local, Reset Node Card" Alars
29-May-05 30-May-05	1	Node Card Chaosis Reset QPA-PS Cable Fault See Team Birk Trip	N1. PR-047	9A-R2 yol-qdl	Tripped supplies Off, Alarm Status: dae to "Local, Roset Node Card" Alarn yol-qdl-ps QPA to PS Cable Pail PNSOS2 Bit #5, Sector 1 Studie Mannet Tree Heater
31-Max-96			NI.	Breaker	
1-Jun-06	1	K-lock Connection	PR-048	K-lock	Cable connection between the 1b-qd1 quench detector and the permit module B-quint-ps Toldo Box (Tunnel Access granted to work on 1b-qd1 - nef to PR-
1-lm-06	١,	Tolds New Replaced	P9.000	harries	B-qtrim-ps Toldo Box (Tunnel Access granted to work on 1b-qd1 - ref to PR- 048)
1-188-06		Ib-adi Bestat	PR-049 PR-050 N.L.	Ownch Dat.	Danish Datestor material at 10-odd
2-Jun-06		Sun 150 Renlacement	NL NL	Breaker yi7-sq6 yol-sdl	PNSQS2 Birk #3, Sector 3 Stude Magnet Tree Heater Tripped on an AC Phase Fault and was swapped out
1-Jun-06 1-Jun-06 1-Jun-06 2-Jun-06 2-Jun-06		Toldo Box Replaced Jh. adl Restart Ice Team Brk Trip Sun 150 Replacement OFA-PS Cable Fault	N1. PE-051		A Company of Section (1992) and the college of Section (1992) and the Coll
3-Jun-06	1	Node Card Chassis Reset	NI.	7A-84	Reset Node Card in Alcove 7A Rack #2 due to Reset Node Card Alarm (MCR
6-Jun-06	1	Node Card Chassis Reset QPA-PS Cable Fault Breaker Roset	N/L PR-052 N/L	7A-R4 yol-qdl b-qmin	Reset Node Card in Alcove 7A Rack #2, due to Reset Node Card Alarm (MCR yeal-self-se QPA to 178 Signal Loss since Cable was replaced Trauble with But Quad cozero; 2, yetch breaker #8 in 1604A REQUOC Current Monitor Fault during Recovery, would not clear, Carl contacted for sintern Monitor Fault during Recovery.
8-341-06	-	Decause Reset			Current Monitor Fault during Recovery, would not clear. Carl contacted for
8-Jun-06	1	Current Monitor Fault Suncraft 300 Replaced Suncraft 300 Replaced	NL NL NL	y-drain High I-Test High I-Test	pointance
8-Jun-06	1	Suncraft 300 Replaced	NL.	High I-Test	Replacement Supply would not make High Currer
9.5	-	Current Base Cont	M-	100	Satisfact industrial state and participation of the Satisfaction of Satisfacti
9-Jan-06	î	Current Reg Card Current Reg Card Enter Signal	PR-055	b8-db0	Range error alarm for b8-db0 right at the time of the beam abort.
9-Jus-06	1	Error Signal	PR-056	bi9-q89	bi9-q89-ps Tripped on an Error
10-Jun-06	2	Suncraft 300 Replaced OFF	PR-057	hi9-q89	Reductionates Supply would nor made Big Carne Carnel and Carnel and Carnel and Carnel and Carnel Stage of the Carnel and Carnel and Carnel and Carnel Stage of the Carnel and Carnel and Carnel and Carnel Carnel and Carnel and Carnel and Carnel and Carnel and Carnel Carnel and Carnel and Carnel and Carnel and Carnel and Carnel Carnel and Carnel and Carnel and Carnel and Carnel and Carnel Carnel and Carnel and Carnel and Carnel and Carnel and Carnel Carnel and Carnel and Car
10-Jun-06 11-Jun-06	1	OFF	PR-058 N/L	y9-db0	y9-dhD-ps tripped to the Off State with no faults
12-Jun-06	1	Breaker Reset Oscillation	Beam Abort	b-quais b6-a89	M-off-es Oscillation causing loss in the Blue Rin
13-Jun-06	٠,	QD UPS Fail	PR-059	UPS	2b Quench Detector UPS Pailed tripping both links also fired the b1 and b2 dX
17-4ED-05	<u> </u>		18-409	UP3	
14-Jun-06	1	Node Card Chassis Reset	NI.	7A-86	Tripped supplies OH, Alarm Status, das to "Local, Rosed Node Card" Alarn Tripped supplies OH, Alarm Status, das to "Local, Rosed Node Card" Alarn, SCAS Brotheast the Mode Card Charelet. The 2 Note to the PLC Bornest OO in the Bird Bird was momentarily host limited by the Card Charelet. The 2 Note to the PLC Bornest OO in the Bird Bird was momentarily host control of the Card Scarlet Sc
14-Jun-06		Node Card Chapte Replaced	NJ.	7A-86	CAS Replaced the Node Card Charsis.
16-Jun-06				YMQ	The 24 Volt to the PLC Remote I/O in the Hot Box was momentarily lost
16-Jun-06 16-Jun-05	1	Reg Error Current Reg Card	PR-061 PR-062		cassing the Regulator to go Lon Current Regulator Card, K1 Local / Remote Relay found Fault
	Τ				The 24 Volt to the PLC Remote I/O in the Hot Box was momentarily lost
20-Jun-06	+	Ree Egys Buffer Card	PE-063 500GeV	YM0 vo8-ef2	Caseing the Regulator to go Lou. The Alarm Log indicated several days of a feetCurrentRape-Press
21-Jun-06	i	Current Reg Card	PR-065	YMO yo8-qf2 yo4-qd3 hi9-a89	15v missing on one of the card channels.
21-Jsn-06 22-Jsn-06	+	Superath 300 Replaced Current Monitor Freely	PE-065	1 N9-489 YMO	DY-489 on Failed at High Currer Fy-flow Main Ouad Power Surely, Current Monitor Fau
17-Jan-06 20-Jan-06 21-Jan-06 21-Jan-06 22-Jan-06 22-Jan-06 22-Jan-06	i	Ree Error Buffer Card Current Reg Card Smcraft 350 Benhand Current Monitor Fault Current Monitor Fault	PR-068	yol-qd3 bi9-a89 YMQ YMQ	Yellow Main Quad Power Supply, Carnest Monitor Fass
22-Jsn-06 22-Jsn-06	+	Buffer Card Current Reg Card	PE-971	304-e68 549-db0	Combin Registant Cash, S. Leccio Falloni Endo Vintor Fasion Combined Combined Cash Cash Cash Cash Cash Cash Cash Cash
	 			DET WAS	Bypass Jumper Installed, CAS discovered Pailed Pan Motor, replaced entire
22-Jun-06	1	QPA Fan Fault Node Card Chassis Reset Node Card Chassis Reset Control Card	NI.	yi7-xxf	Bypan heaper Installed, CAS discovered Pailed Pan Motor, replaced entire CPA Baset Node, Card 11.8, R2 after Prover Dig. Baset Node, Card 11.8, R2 after Prover Dig. Bactoristing from Prover Dig. Tel. Trail CPS 1ag: The main guage have pailed the yellow queech list. 3 times this shift OPN's Parish well after the proven days had subsided. OPN's Parish well after the proven days had subsided. OPN's Parish well after the proven days had subsided.
23-Jun-06 23-Jun-06	1	Node Card Charris Reset	NIL PD PD PD	11A-R2 1C-R2 yi7-qd2	Reset Node Card 11A-R2 after Power Dig
24-Jun-06	1	Control Card		yi7-qd2	Recovering from Power Dip, PET Faul OPS Low The main could be realled to the country of the Cou
24-Jun-06	3	PPN Fault	PR-079	YMQ yo8-qf2	(PPN Faults) well after the power dips had subsided.
24-Jun-06	1	AC Phase Pault	PR-079 PR-080 PR-084	yo8-qf2	Power Dips, Cycled to Off
25-Jun-06	i	PPN Funk	PR-084 PR-081 PR-082 PR-083 N/L	yol-qf8 YMQ BMQ YMQ	Undetermined, cleared as the Weather got bette
25-Jun-06 25-Jun-06	+	Regulator Error Current Monitor Fault	PR-082 PR-081	YMO	Unexplained while working on the YMQ PPN Faul Woose PLC Program reviewd
26-Jun-06	i	QPA Crowbar	NL NL	y12-005	Higher then normal Voltage seen on PS ALL, QPA would trip at 16 vol
26-Jun-06 26-Jun-06	+	AC Phase Fault HKPS PFN Fault Regulator Hinte Current Monitor Fault QPA Conwbar Current Monitor Fault San 150 Replacement	PR-085 N/L	BMD bi5-sol	Power Eppe, Cycleds in Off Vol. Spir. Striped and COST HAVE Frain Understanded, Cancel as the Warder get beat Understanded, Cancel as the Warder get beat Understanded by Striped Spir. Spir
Totalic	120		1		1

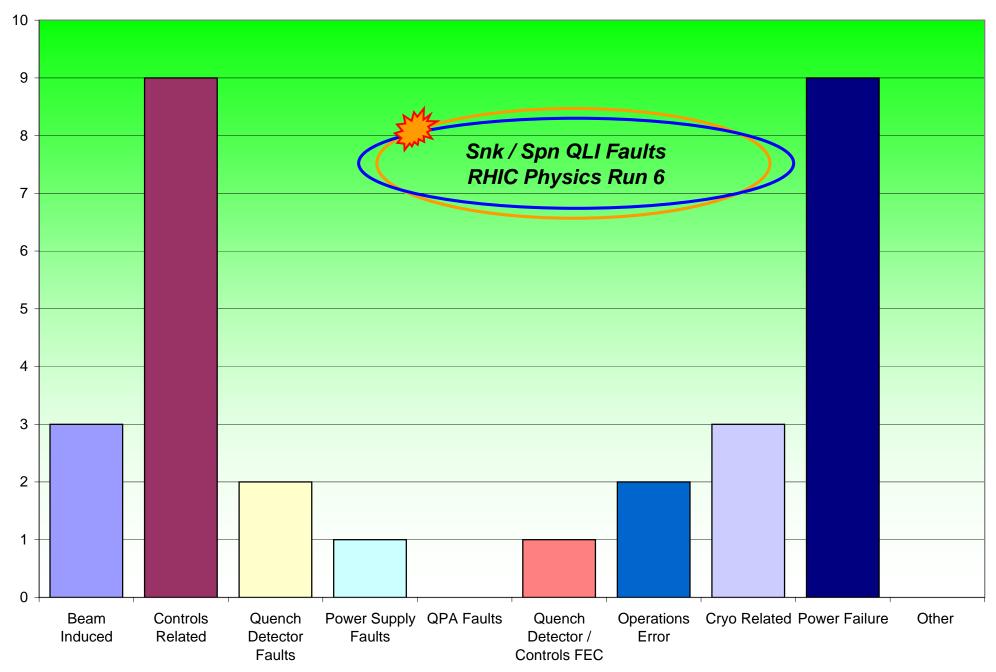
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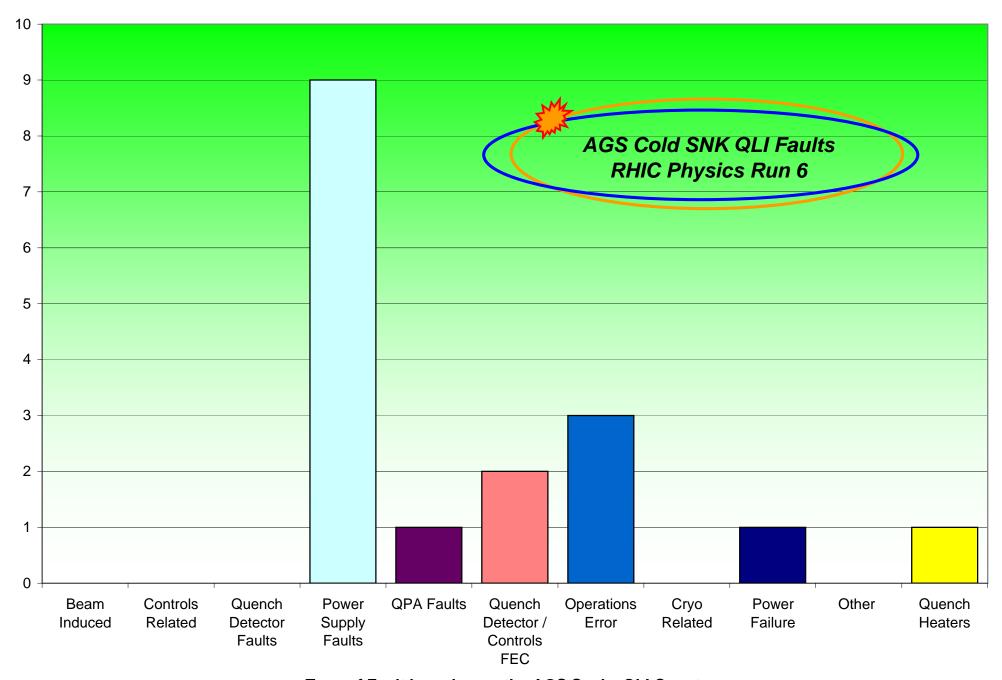
Date	Qty	Identification	<u>Fault</u>	Action Taken
			DCOC / Voltage	
21-Feb-06	1	yi6-qf9	Reg Card	Could not find the cause, swapped out the Voltage Regulator Card
			Ireg, Firing,	1) Swapped current regulator card, firing card and buffer card for yo9-qd7ps. 2) Replaced
28-Feb-06	4	yo9-qd7	Buffer	J9 D connector and 3u chassis backplane of yo9-qd7-ps.
28-Feb-06	1	yo1-qf8	Ireg Card	Swapped out the Current Regulator Card
28-Feb-06	1	b8-q89	Ireg Card	Swapped out the Current Regulator Card
28-Feb-06	1	b2-q7	Wire Connection	Replaced gate drive wire to one SCR
28-Feb-06	4	QPA Fan Switches	Switches	Replaced bad qpa fan switches in 4 qpa's in 2B and 1 qpa in 4B
28-Feb-06	1	QPA	Switches	Replaced one qpa in 4B because of bad fan switches
28-Feb-06	1	bi5-rot3-2.3	Low Res Card	Swapped out Low Res card.
28-Feb-06	1	bi1-tv4	Faulty Reading	Replaced Node Card Cable
20 E 1 06		G II E		Added fans to magnet trees B8Q1, B8Q3, B9Q3, B12Q1, Y2Q1, Y2Q2, Y2Q3, Y9Q1
28-Feb-06	9	Cooling Fans	Ice Build Up	and Y9Q3
28-Feb-06	1	Y10-17TB	Ice Team Sensor	Replaced bad ice ball temperature sensor Y10-17TB.
2-Mar-06	1	b2-15TB	Ice Team Sensor	Sensor not responding, wrong ID Address was assigned
15.16 06		0 17	Current Spikes /	
15-Mar-06	1	yo9-qd7	Ireg Card	Swapped 3 channel isolation amplifier board between yo9-qd7 and yi10-qf7
15-Mar-06	1	yi3-qf7	Connection	Repaired connector on SCR gate of yi3-qf7
15-Mar-06	1	b8-q7	Gate Drive	Checked gate drive outputs of b8-q7 and they all looked good.
15-Mar-06	3	QPA Fan Switches	Switches	Swapped out qpa fan switches for yo12-qf2, yo12-qd1, and yi3-qf7
15 M 06	2	0 /-:10	OSS	Swapped Iref and Digital Iso Cards between yi10-qgt and bo10-qgt, bypasses Under
15-Mar-06	2	yo9-qgt / yi10-qgt	Off	Voltage Circuit in yi10-qgt and yo9-qgt
28-Mar-06	1	vo12 ad2	Gate Drive	Replaced Faulty Gate Drive Board, Transformer TR2 Secondary burnt due to failed C7 Cap
4-Apr-06	1	yo12-qd3		
4-Apr-06 4-Apr-06	2	Reversed Polarity OPA Fan Switches	yo4-cqs9 Switches	Swapped the sextupole magnet leads on yo4-cqs9. Swapped out bad qpa fan switches for yi3-tq4 and bo3-qd7
4-Apr-06		QPA ran Switches	Switches	Original Card indicated 1/2 the value for voltage. New Type1 Buffer Card fixed the
19-Apr-06	1	bi4-tq4	Buffer Card	problem, no problems found with the original card.
19-Ap1-00	1	014-tq 4	Bullet Calu	Power supply was coming up on the Alarm Page with a range error fault. Swapped out
3-May-06	1	bo11-qd1-ps	Current Peg Card	current regulator card for bol1-qd1 because of a bad relay. D. Bruno
3-Way-00	1	0011-qu1-ps	Bad AC	current regulator card for borr-qui because of a bad relay. D. Bruno
3-May-06	1	yo5-tv17	Connection	Supply tripped to the Off state, loose AC Connection at the rear of the power supply.
10-May-06	1	Y10-02TB	Ice Team Sensor	Replaced bad ice ball temperature sensor Y10-02TB.
10-May-06	1	Cooling Fans	Fan Fail	Replaced a failed fan on yo5-rot3 Magnet that was discovered on May 1
31-May-06	1	6K Dump Switches	Switches	Y9DQPSW and Y10DQPSW quench switches Fan switches (6 per unit) replaced
31 may 00		orr Bump B witches	Ice Team	Sector 1 Dx-Q4 magnet tree heaters and thermostats. Replaced YQ2 Thermostat and
31-May-06	1	DX-Q4 Heaters	Thermostat	heater.
31-May-06	1	a20-csnk-sol-ps	Switches	Replaced qpa fan switches on A20-csnk-sol-qp.
31-May-06	1	yo1-qd1	Signal Cable	Replaced yo1-qd1-ps to yo1-qd1-qp signal cable.
8-Jun-06	1	yo1-qd1	Signal Cable	Faulty Ribbon Cable found from J102 to J11 Internal of Supply
		J . 1		Unable to make High Current Run Test, looking from the rear of the QPA, found Right
8-Jun-06	1	b8-dh0	IGBT Module	Side IGBT Module blown. (Also replaced IGBT Driver Card)
8-Jun-06	1	bi9-q89	300 Amp Sun	Unable to make High Current Run Test, Swapped power Supply 1st attempt
8-Jun-06	1	bi9-q89	300 Amp Sun	Unable to make High Current Run Test, Swapped power Supply 2nd attempt
20-Jun-06	1	yo8-qf2	Buffer Card	MADC Current Readback bouncing, not real on the Power Supply
20-Jun-06	1	b2-dhX	IGBT Driver	Supply would Crowbar at the top, found 1 IGBT Driver Card of 4 to have faulty Caps
				Readings above allowable set standard, bypass plugs installed to prevent false fan failures
				until next available maintenance day (yi6-tq4, yi2-qf2, yi2-qf9, bi1-qd2, yo1-tq6, bo3-qf6,
				b-qtrim, b8-q7, bo10-qf6, yo12-qf2, yo12-qd3, yo12-qd1, yi3-qf7, yi3-tq4, bi5-qf9, yo4-
			Preventative Fan	qd1, bo3-qd7, b4-dhX, a20-ags-sol, yi10-dh0, yo4-qf2, bi4-tq6, bi8-qf1, yo9-tq6, bi9-dh0,
All Run 6	29	QPA Jumper Plugs	Failure	Y10DQPSW, B10DQPSW, bi5-qf9, bo3-tq4)
		1		\$ 7 \$ 5 5 7 7 7 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7
				I .



Type of Fault based upon the Main QLI Counters



Type of Fault based upon the Snake / Spin QLI Counters



Type of Fault based upon the AGS Snake QLI Counters